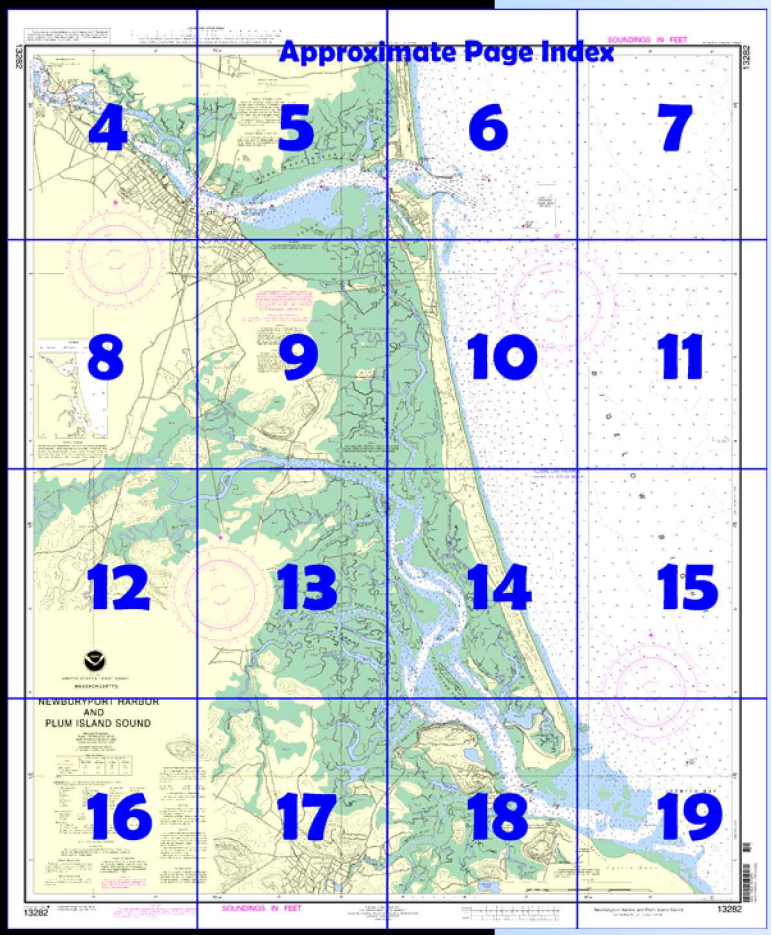
BookletChart™

Newburyport Harbor and Plum Island Sound

(NOAA Chart 13282)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ *Complete, reduced scale nautical chart*
- ☑ *Print at home for free*
- ☑ *Convenient size*
- ☑ *Up to date with all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

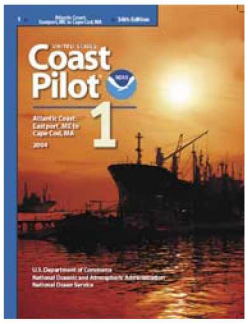
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 1, Chapter 9 excerpts]

(399) **Merrimack River** is the largest river in the eastern part of Massachusetts. It is the approach to the cities of Newburyport and Haverhill, and to the towns of Amesbury, Merrimacport, Groveland, and Bradford. The river is used by vessels of 6-foot draft at high water up to Haverhill and about 12-foot draft at high water to Newburyport. The head of navigation is at the dam just above Broadway Bridge in Lawrence, 25.7 miles above the mouth. The river is seldom entered for refuge and has virtually no commercial traffic.

(400) The shifting bar at the entrance is usually dangerous to cross in heavy weather. The whole entrance breaks in easterly gales. A lighted fairway whistle buoy, about 1 mile off the jetties, marks the approach.

(401) The Coast Guard has established a **rough bar advisory sign,** 47 feet above the water, on the roof of a boathouse to promote safety for small-boat operators. The sign is diamond-shaped, painted white with an international orange border, and with the words **"Danger Rough Bar"** in black letters. The sign is equipped with a flashing white light. The light will be activated when the seas exceed 2 feet in height and are considered hazardous for small boats. Small-boat operators are cautioned, however, that if the light is not flashing, it is no guarantee that sea conditions are favorable.

(403) **Merrimack River Coast Guard Station** is on the south side of the river west of the American Yacht Club.

(406) Merrimack River is entered by a dredged channel which leads through the bar between two jetties at the entrance. In 1998-October 2001, the controlling depth was 6.9 feet in the bar channel; thence 7.5 feet in the marked channel to the highway bridge at Newburyport, about 3 miles above the jetties. From Newburyport to Deer Island swing bridge, the controlling depth was 6 feet in July 1989, thence in 1964, the reported controlling depth was 3 feet to Haverhill. In March 1978, numerous obstructions and shoaling were reported in the channel between the bridge at Groveland and Haverhill. In September 1986, a submerged obstruction was reported in the center of the channel near Merrimack River Buoy 53 in about 42°48'44"N., 71°00'03"W. In May 1987, shoaling to an unknown depth was reported in the vicinity of Merrimack River Lighted Buoy 8.

(407) The jetties extend from both points at the entrance out to the bar and are difficult to see at high water, particularly at night and in periods of low visibility. About 240 yards of the outer end of the north jetty is submerged at high water.

(409) At Newburyport the usual and best anchorage is in the channel about 400 yards below the highway bridge, favoring the north side of the channel and keeping clear of the two charted cable areas. The current is reported to run strongest along the south shore here. The holding ground is good.

(410) The yacht club maintains guest moorings as do many of the service facilities and marinas. Numerous private moorings are maintained off Newburyport and in the upper river as far as Haverhill. They are under control of the **harbormasters** at Newburyport, Amesbury, and Haverhill.

(411) Public floats are along the south side of the river at Newburyport, about 0.2 mile west of **Merrimack River Coast Guard Station**. In July 1979, 8 feet was reported alongside the floats. Berthing is under the control of the Newburyport harbormaster.

(421) A lighted fairway whistle buoy is about 1 mile outside the bar at the entrance to Merrimack River, a seasonal lighted bell buoy is at the bar, and the channel across the bar is marked by an entrance leading light, buoys, lights, and a daybeacon. The chart should be the guide following the aids. Considerable chop is experienced on the bar with the wind against the tide.

(422) Small craft may enter when the sea is smooth and on a rising tide, following the buoys. The river cannot be entered during a heavy sea. The outer ends of the jetties are awash at high water.

(423) After the bar is crossed, the channel is well marked and easily followed to Newburyport. The channel leads between **North Pier,** marked by a light, and **South Pier,** bare at half tide and marked by a buoy. Westward of South Pier, for the best water favor the Newburyport, or south, shore until up with the overhead power cables, and the buoy under them, then head up for the draw of the highway bridge, still favoring the south side of the channel, and select anchorage or obtain a mooring off one of the service facilities or marinas.

(424) The channel between Newburyport and Haverhill is marked by buoys at the most difficult points, but is narrow and crooked, and leads close to rocks in places. Local knowledge is required to keep in it.

(428) The area southward of the outer 240 yards of the submerged north jetty and the channel is a shoaling sand bar subject to constant change in depth. This area and a portion of the channel just south are extremely hazardous. Avoid crossing the sunken jetty or sandbar, and use caution in the channel to the south of it.

Table of Selected Chart Notes

Corrected through NM Sep. 19/09
Corrected through LNM Sep. 08/09

HEIGHTS

Heights in feet above Mean High Water.

NOTE C

Positions of buoys in the Ipswich River are frequently shifted with changing conditions and are not charted.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.333" northward and 1.812" eastward to agree with this chart.

NOTE B

The entrance channel into Plum Island Sound is subject to continual changes. Buoys 3, 4 and 6 are not charted because they are frequently shifted in position.

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Boston, MA	KHB-35	162.475 MHz
Concord, NH	WXJ-40	162.400 MHz
Essex Marine, MA	WNG-574	162.425 MHz
Stratham, NH	KZZ-40	162.450 MHz

Mercator Projection
Scale 1:20,000 at Lat. 42°45'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 2-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx, or OceanGrafix at 1-877-56CHART or http://www.oceangrafix.com.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 1. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 1st Coast Guard District in Boston, MA or at the Office of the District Engineer, Corps of Engineers in Concord, MA.

Refer to charted regulation section numbers.

Additional information can be obtained at nauticalcharts.noaa.gov.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

COLREGS, 80.115 (see note A)

International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Newburyport	(42°49'N/70°52'W)	8.5	8.1	0.3
Plum Island Sound (south end)	(42°43'N/70°47'W)	9.3	8.9	0.3

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Aug 2009)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

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LOGARITHMIC SPEED SCALE

1 2 3 4 5 6 7 8 9 10 15 20 25

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, th

CONTINUED ON CHART 13274

Joins page 8

North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

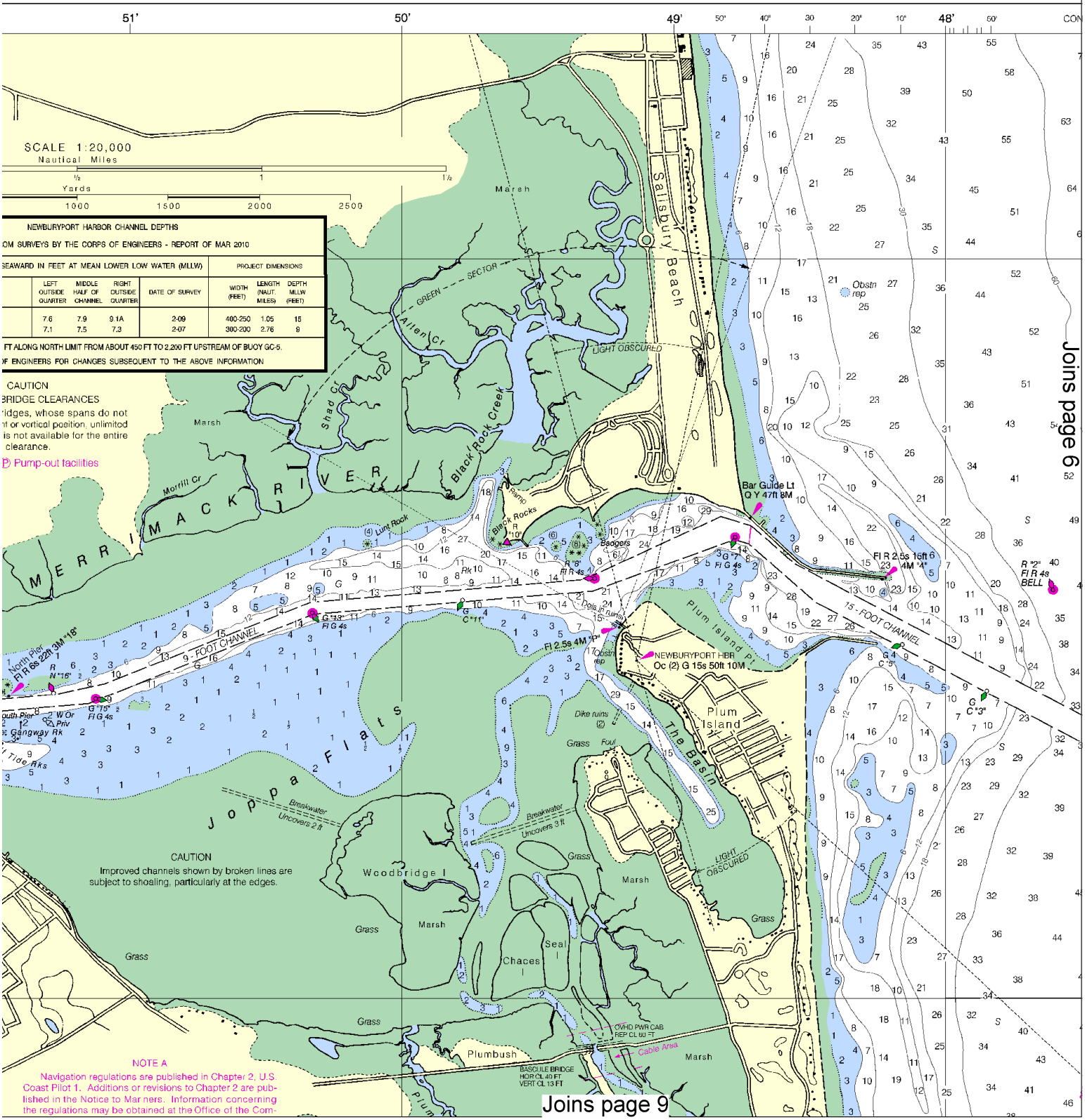
Nautical Miles: 0 1 1½

Yards: 500 0 500 1000 1500 2000 2500

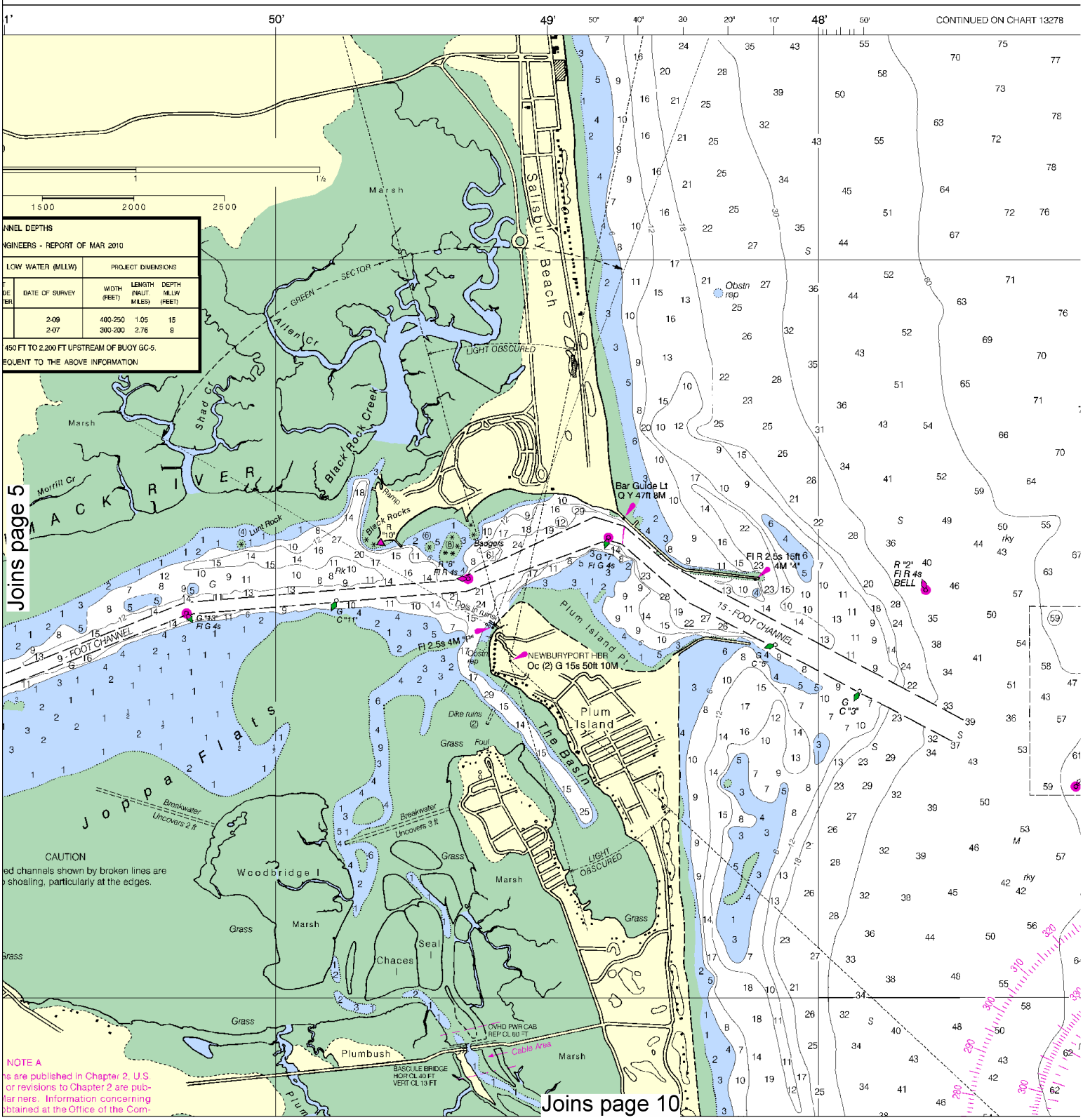
30 40 50 60

ing divider spread, place
the speed is 16.0 knots.

Formerly C&GS 213, 1st Ed., May 1957 D-1957 KAPP 2065



This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:26667. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.



LOW WATER (MLLW)		PROJECT DIMENSIONS		
	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
	2-09	400-250	1.05	15
	2-07	300-200	2.76	9

450 FT TO 2,200 FT UPSTREAM OF BUOY GC-5.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500

North

NOTE X

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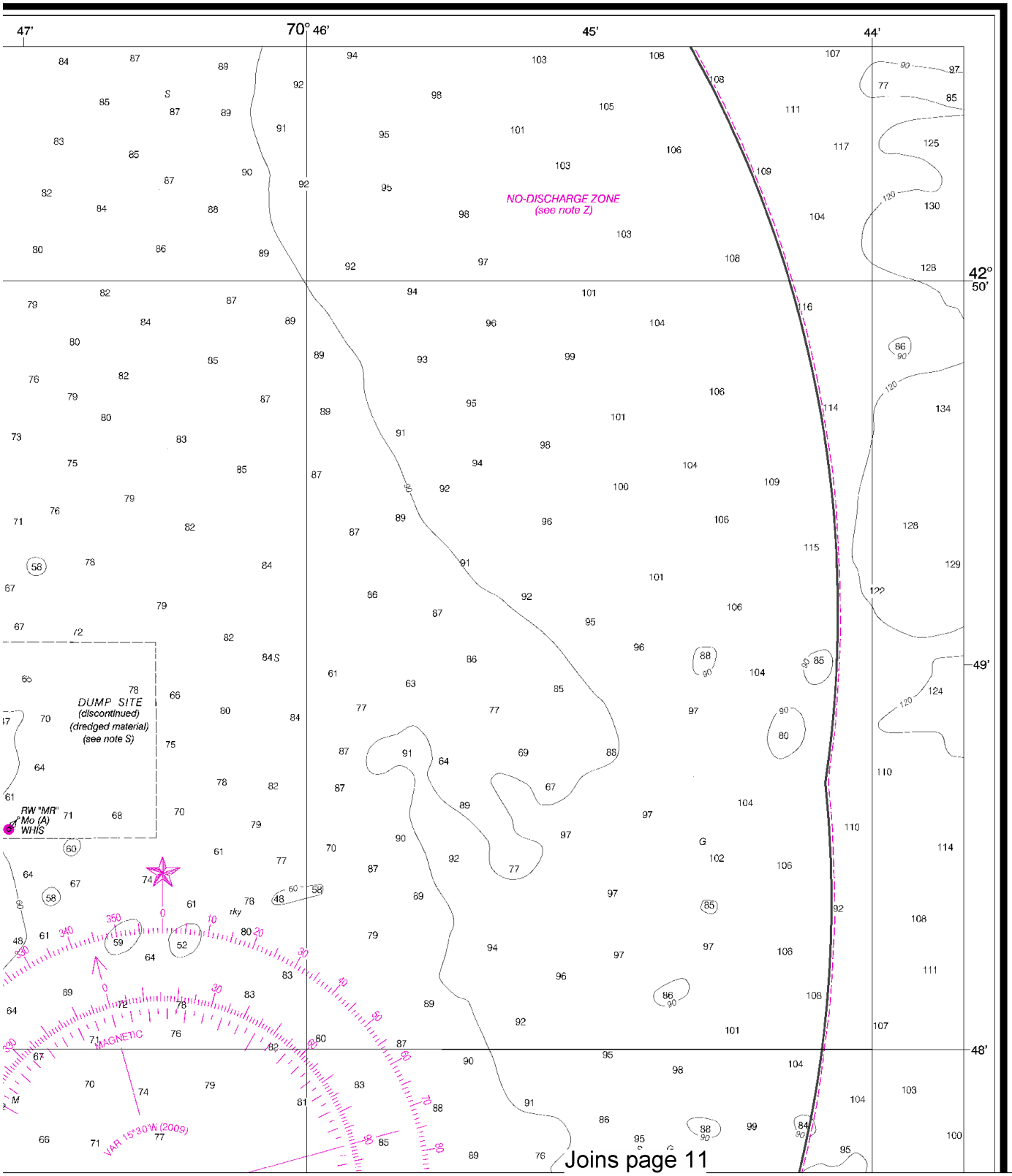
SOUNDINGS IN FEET

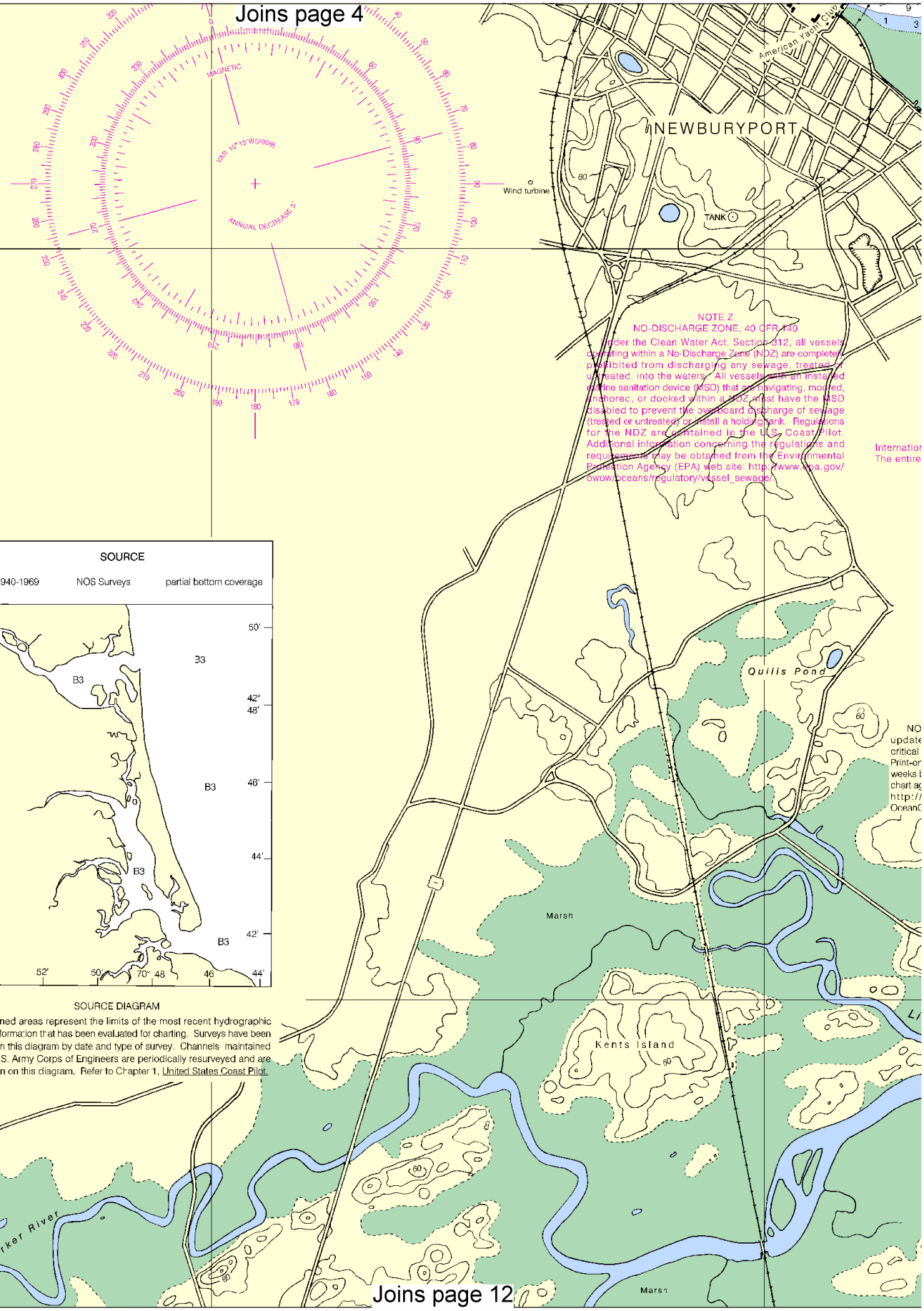
13282



Joins page 11

This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0511 2/1/2011,
NGA Weekly Notice to Mariners: 0711 2/12/2011,
Canadian Coast Guard Notice to Mariners: 0810 8/27/2010.

Joins page 4



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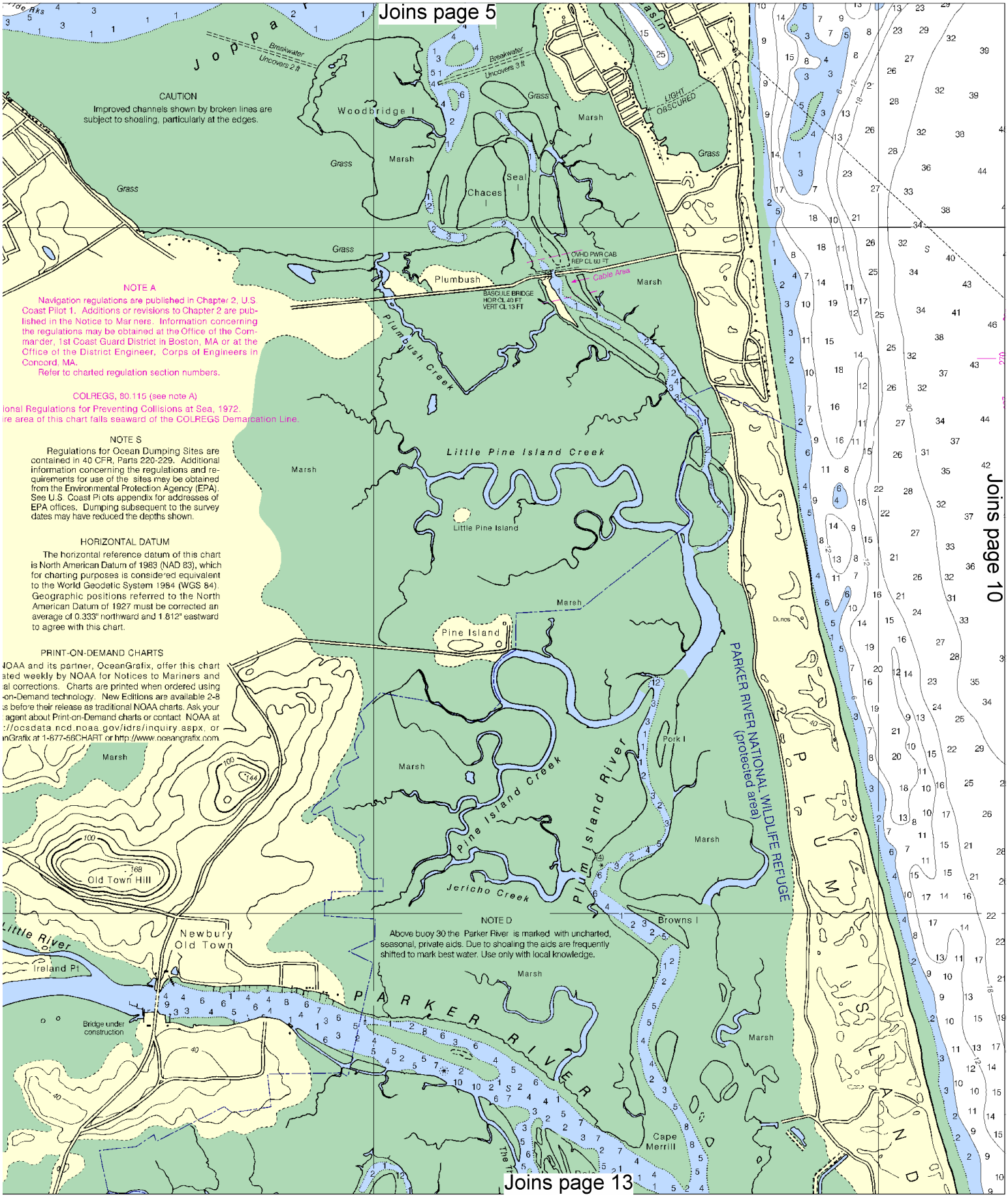
Joins page 12

North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles
0 1 1½

Yards
500 0 500 1000 1500 2000 2500


Joins page 5
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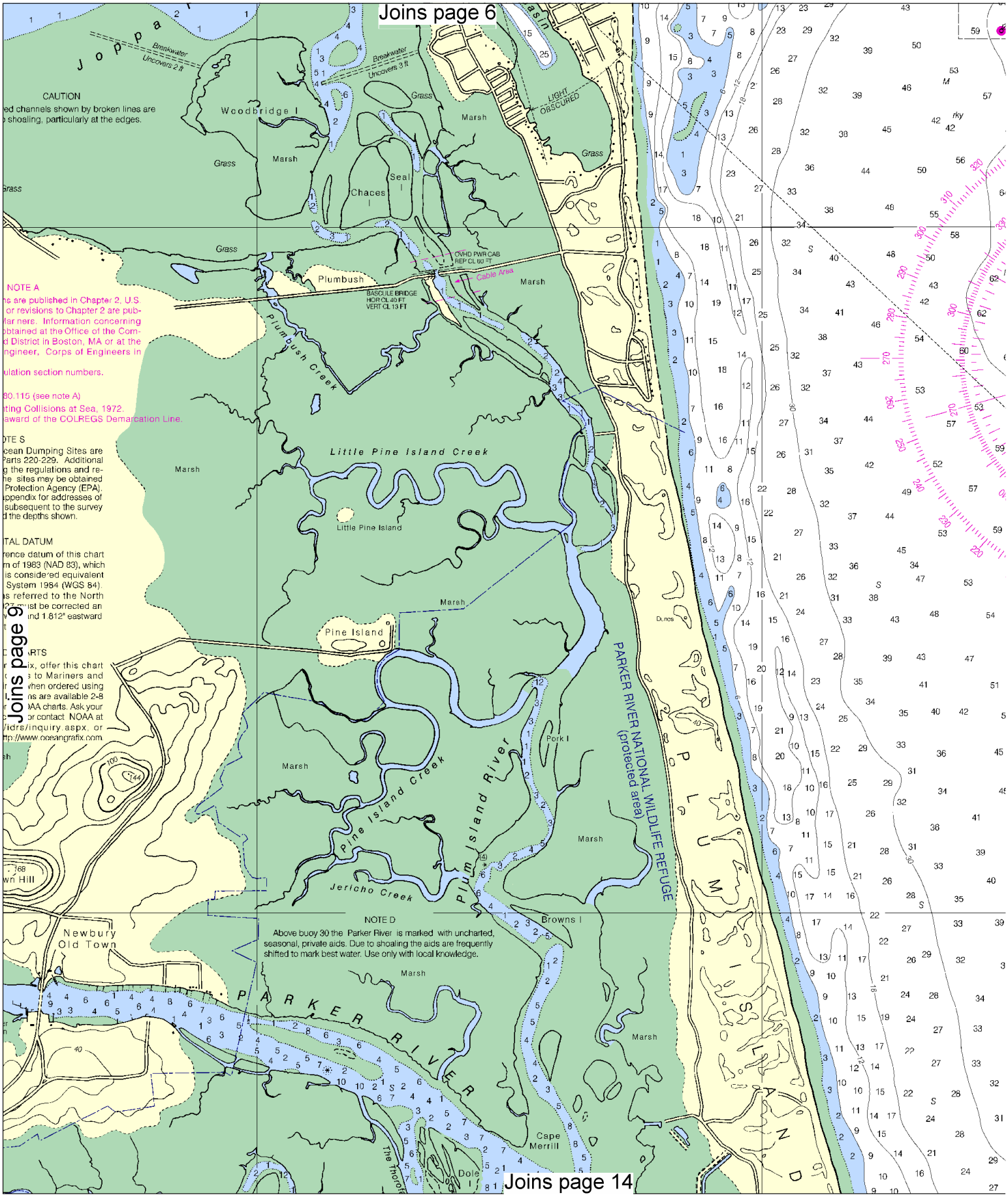
PRINT-ON-DEMAND CHARTS
NOAA and its partner, OceanGrafix, offer this chart
ated weekly by NOAA for Notices to Mariners and
al corrections. Charts are printed when ordered using
-on-Demand technology. New Editions are available 2-8
s before their release as traditional NOAA charts. Ask your
agent about Print-on-Demand charts or contact NOAA at
://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx, or
nGrafix at 1-877-56CHART or http://www.oceangrafix.com
Joppa
Breakwater Uncovers 2 ft
Breakwater Uncovers 3 ft
Woodbridge I
Grass
Marsh
Seal I
Chaces I
LIGHT OBSCURED
Basin
OVHD PWR CAB REP CL 60 FT
Cable Area
Plumbush
BASCULE BRIDGE HOR CL 40 FT VERT CL 13 FT
Plumbush Creek
Little Pine Island Creek
Little Pine Island
Pine Island
Dunes
PARKER RIVER NATIONAL WILDLIFE REFUGE (protected area)
Pork I
Pine Island River
Pine Island Creek
Jericho Creek
Old Town Hill
Newbury Old Town
Ireland Pt
Little River
Bridge under construction
PARKER RIVER
NOTE D
Above buoy 30 the Parker River is marked with uncharted, seasonal, private aids. Due to shoaling the aids are frequently shifted to mark best water. Use only with local knowledge.
Browns I
Cape Merrill
PLUM ISLAND
Joins page 10
Joins page 13

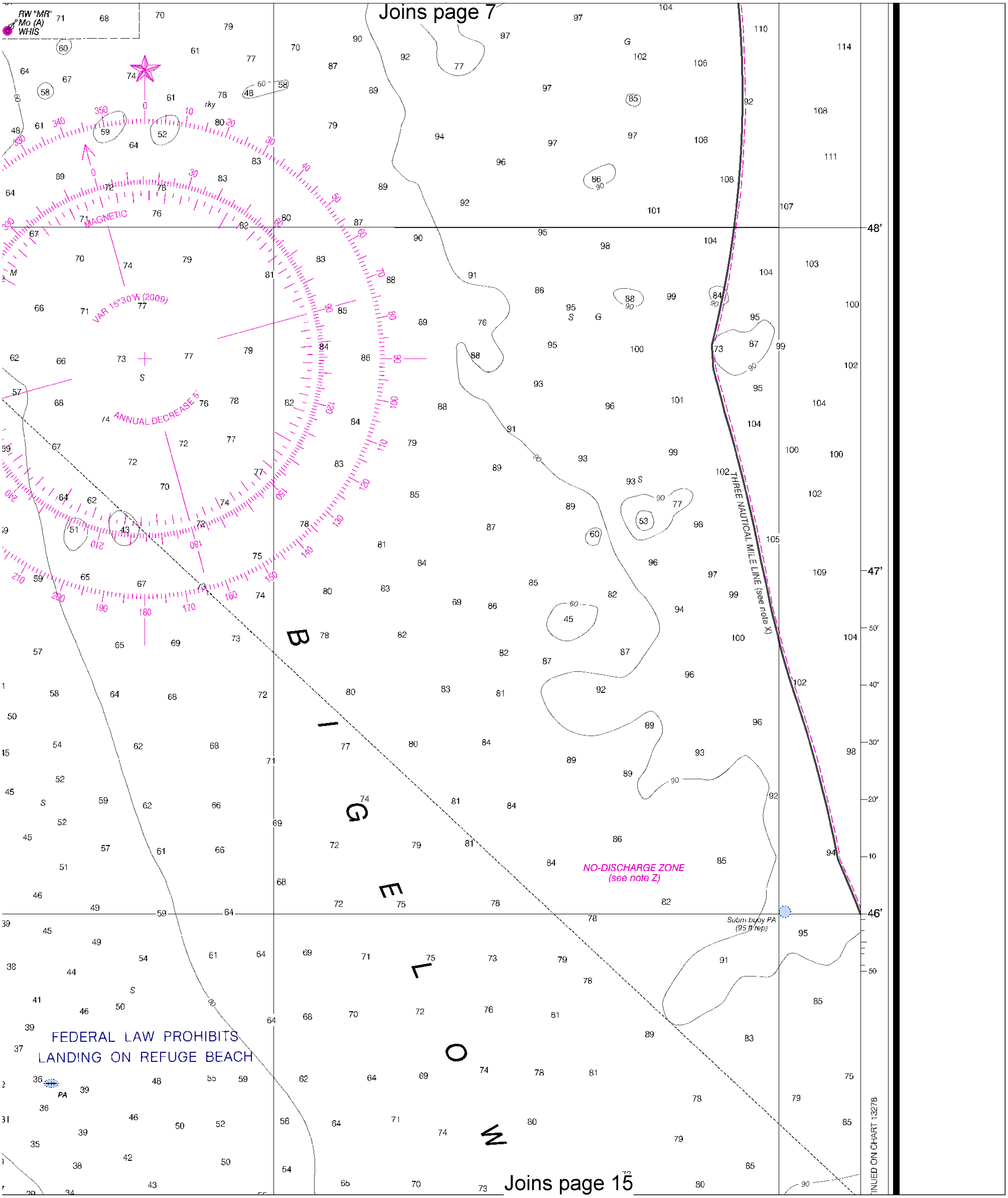


North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

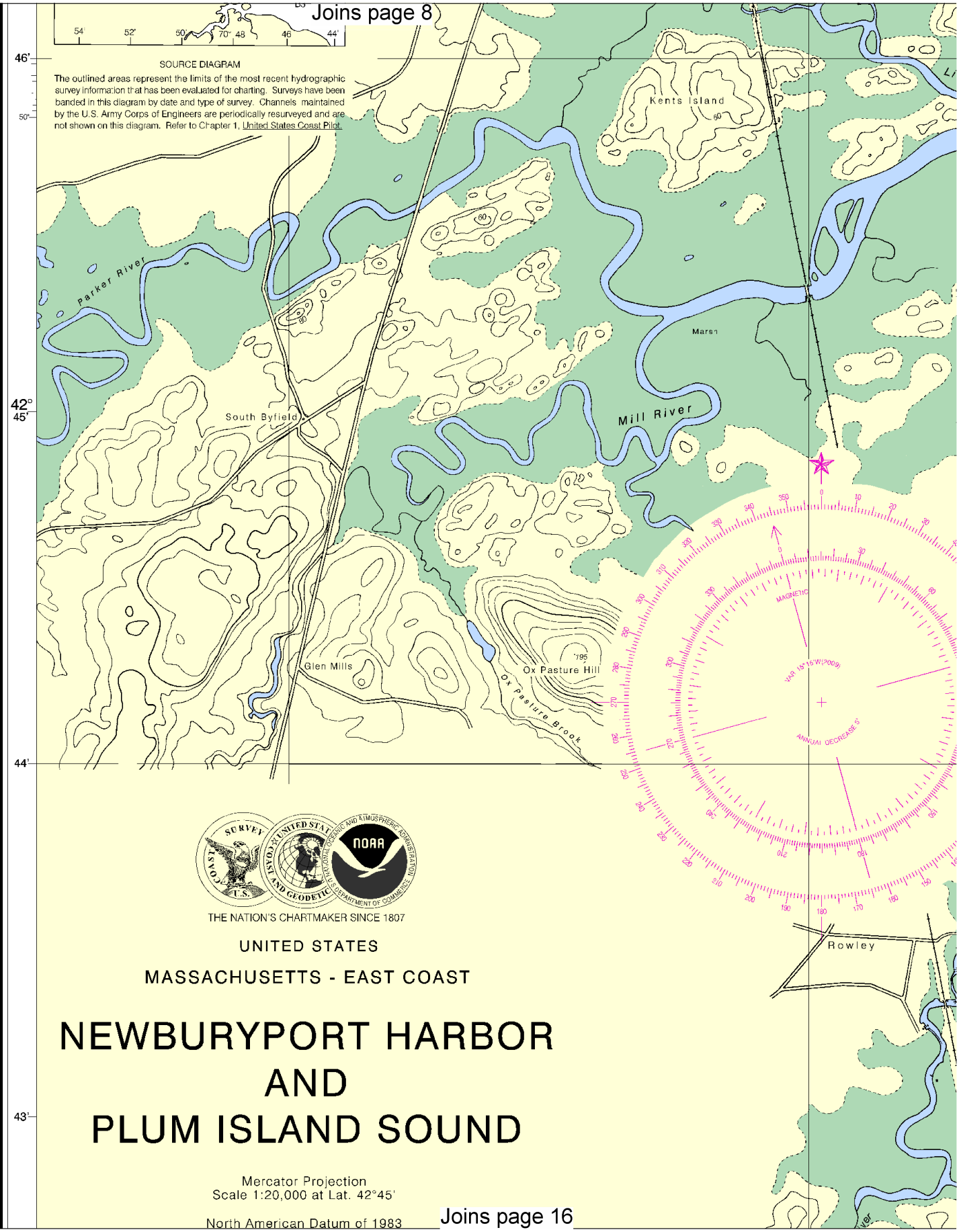
Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500



Joins page 7
RW "MR"
Mo (A)
WHIS
MAGNETIC
VAR 15°30'W (2009)
ANNUAL DECREASE 5'
THREE NAUTICAL MILE LINE (see note X)
NO-DISCHARGE ZONE
(see note Z)
Subm buoy PA
(95 ft rep)
B I G E L O W
FEDERAL LAW PROHIBITS
LANDING ON REFUGE BEACH
48'
47'
46'
Joins page 15

Joins page 8



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

MASSACHUSETTS - EAST COAST

NEWBURYPORT HARBOR AND PLUM ISLAND SOUND

Mercator Projection
Scale 1:20,000 at Lat. 42°45'

North American Datum of 1983

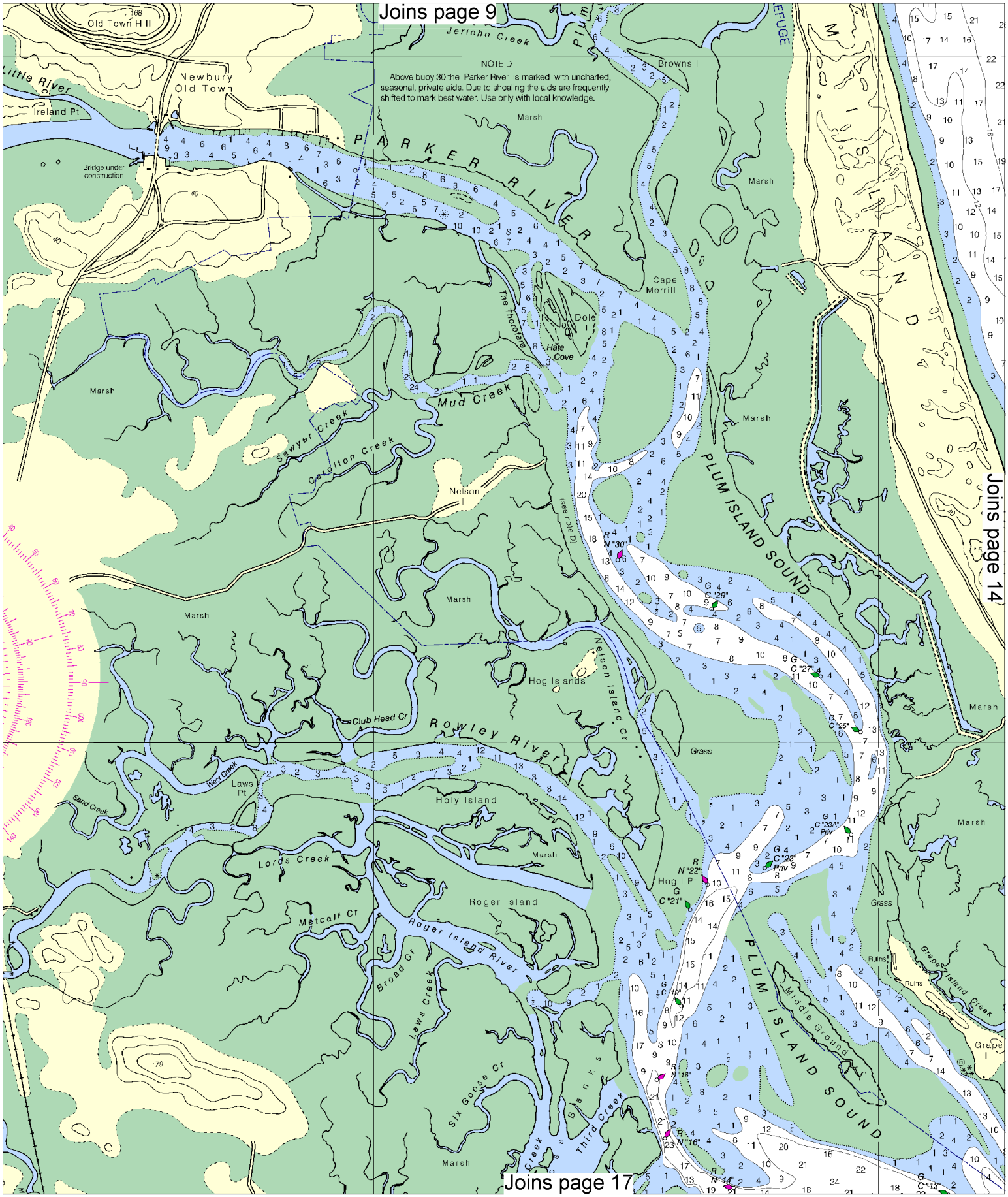
Joins page 16

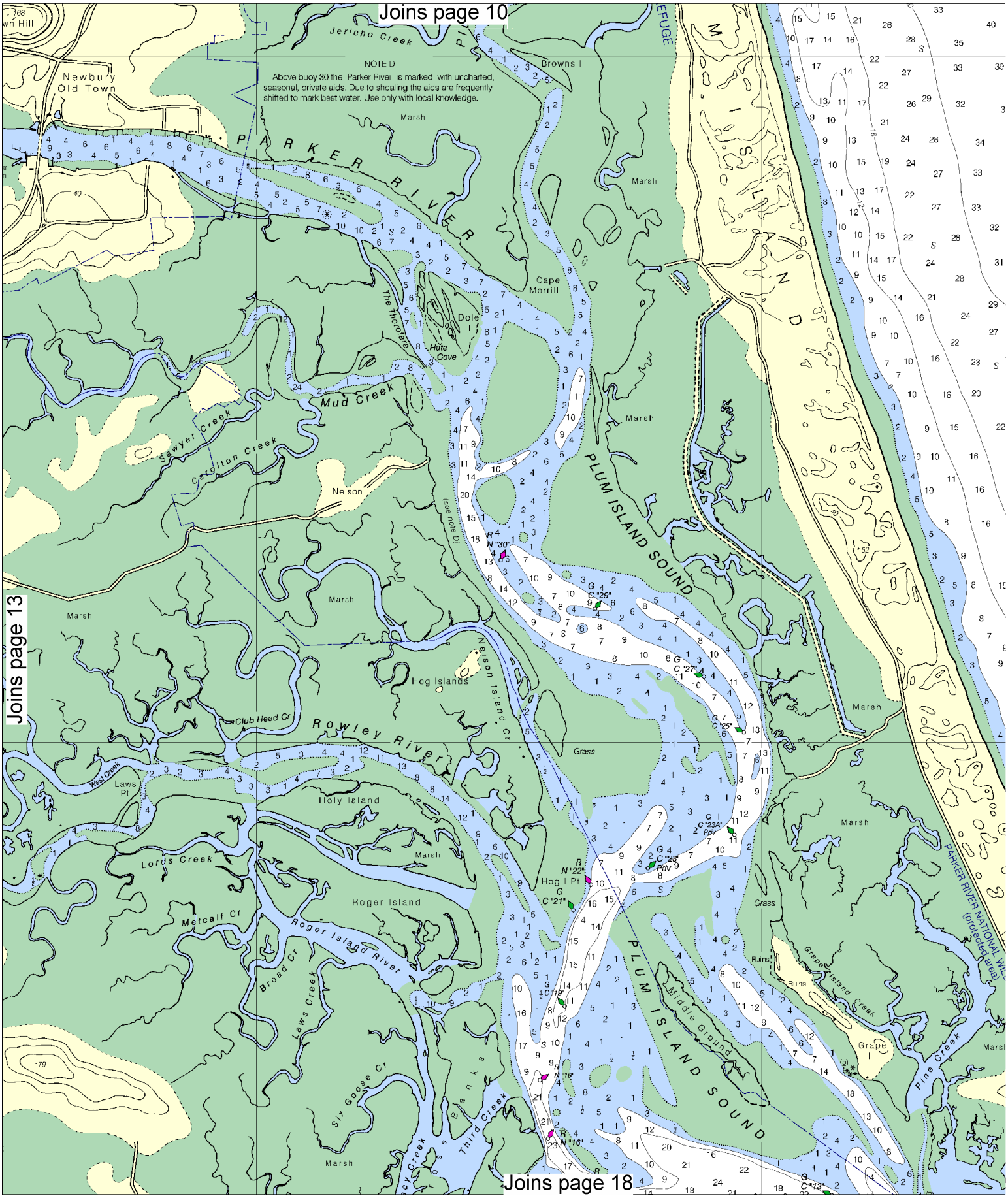
North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500


Joins page 9
Old Town Hill
168
Jericho Creek
Plum I
NOTE D
Above buoy 30 the Parker River is marked with uncharted, seasonal, private aids. Due to shoaling the aids are frequently shifted to mark best water. Use only with local knowledge.
Browns I
Little River
Newbury
Old Town
Ireland Pt
Marsh
PARKER RIVER
Bridge under construction
Cape Merrill
Dole I
Hate Cove
The Thoroughfare
Mud Creek
Sawyer Creek
Carolton Creek
Nelson I
(see note D)
PLUM ISLAND SOUND
Hog Islands
Nelson Island Cr
Club Head Cr
Rowley River
Grass
Holy Island
West Creek
Laws Pt
Sand Creek
Lords Creek
Metcalf Cr
Roger Island
Roger Island River
Broad Cr
Laws Creek
Six Goose Cr
Third Creek
Creek
Banks
Hog I Pt
Middle Ground
Ruins
Grape I
Grape Island Creek
Joins page 14
Joins page 17

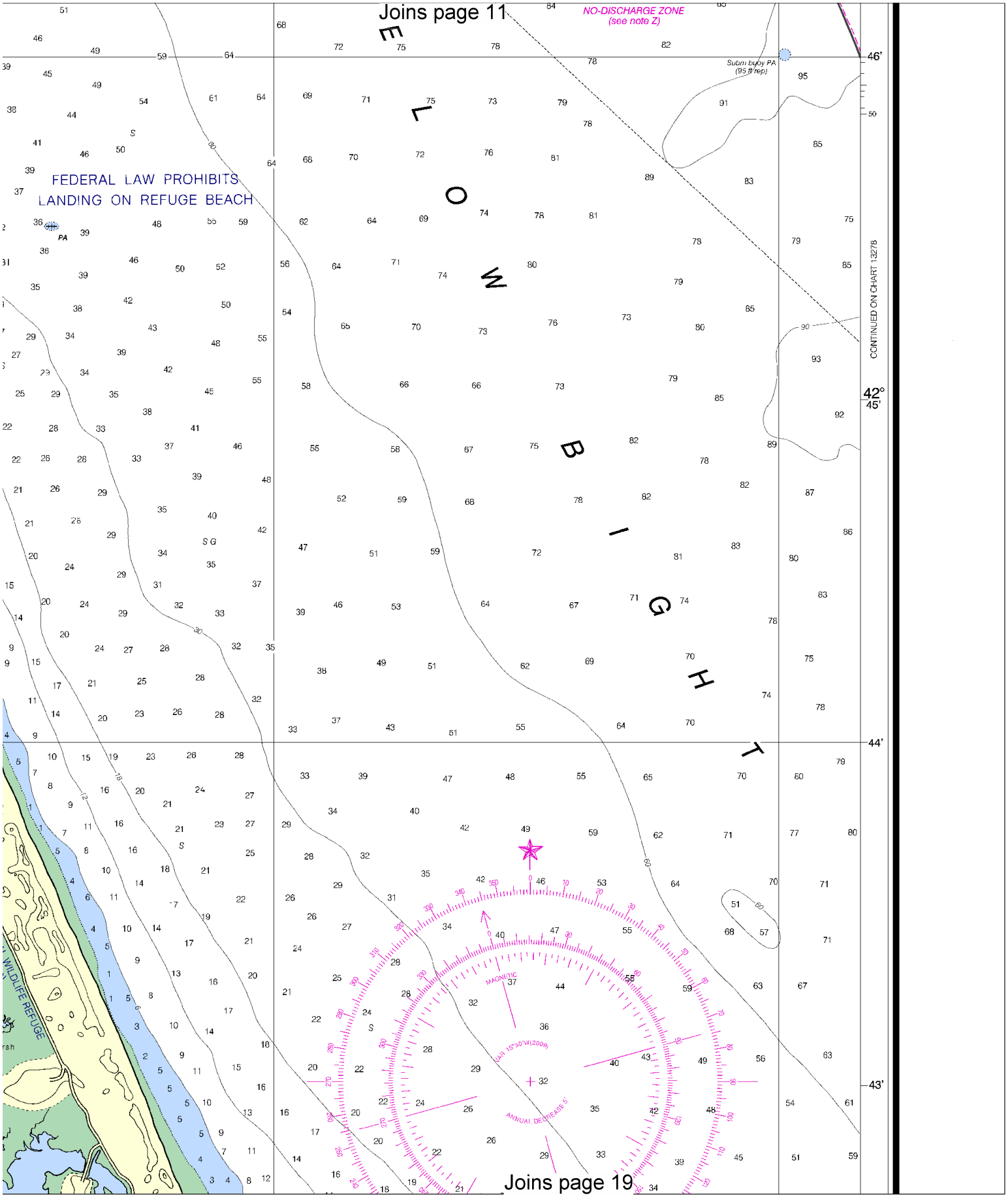


North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500


Joins page 11
NO-DISCHARGE ZONE
(see note Z)
Subm buoy PA
(95 ft rep)
FEDERAL LAW PROHIBITS
LANDING ON REFUGE BEACH
PA
YELLOW BIGHT
CONTINUED ON CHART 13278
46'
42° 45'
44'
43'
WILDLIFE REFUGE
MAGNETIC
VAR 15°30'W(2009)
ANNUAL DECREASE 5'
Joins page 19

Joins page 12

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

MASSACHUSETTS - EAST COAST

NEWBURYPORT HARBOR AND PLUM ISLAND SOUND

Mercator Projection
Scale 1:20,000 at Lat. 42°45'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Newburyport	(42°49'N/70°52'W)	8.5	8.1	0.3
Plum Island Sound (south end)	(42°43'N/70°47'W)	9.3	8.9	0.3

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Aug 2009)

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics:

Blds boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Boston, MA	KHB-35	162.475 MHz
Concord, NH	WXJ-40	162.400 MHz
Essex Marine, MA	WNG-574	162.425 MHz
Stratham, NH	KZZ-40	162.450 MHz

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 1 for important supplemental information.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

Rowley
Egypt River
Jewett Hill
Turkey Hill
-251

43'
42°
42'
41'
54'
53'
70° 52'

12th Ed., Sep./09 ■ Corrected through NM Sep. 19/09
Corrected through LNM Sep. 08/09

13282

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

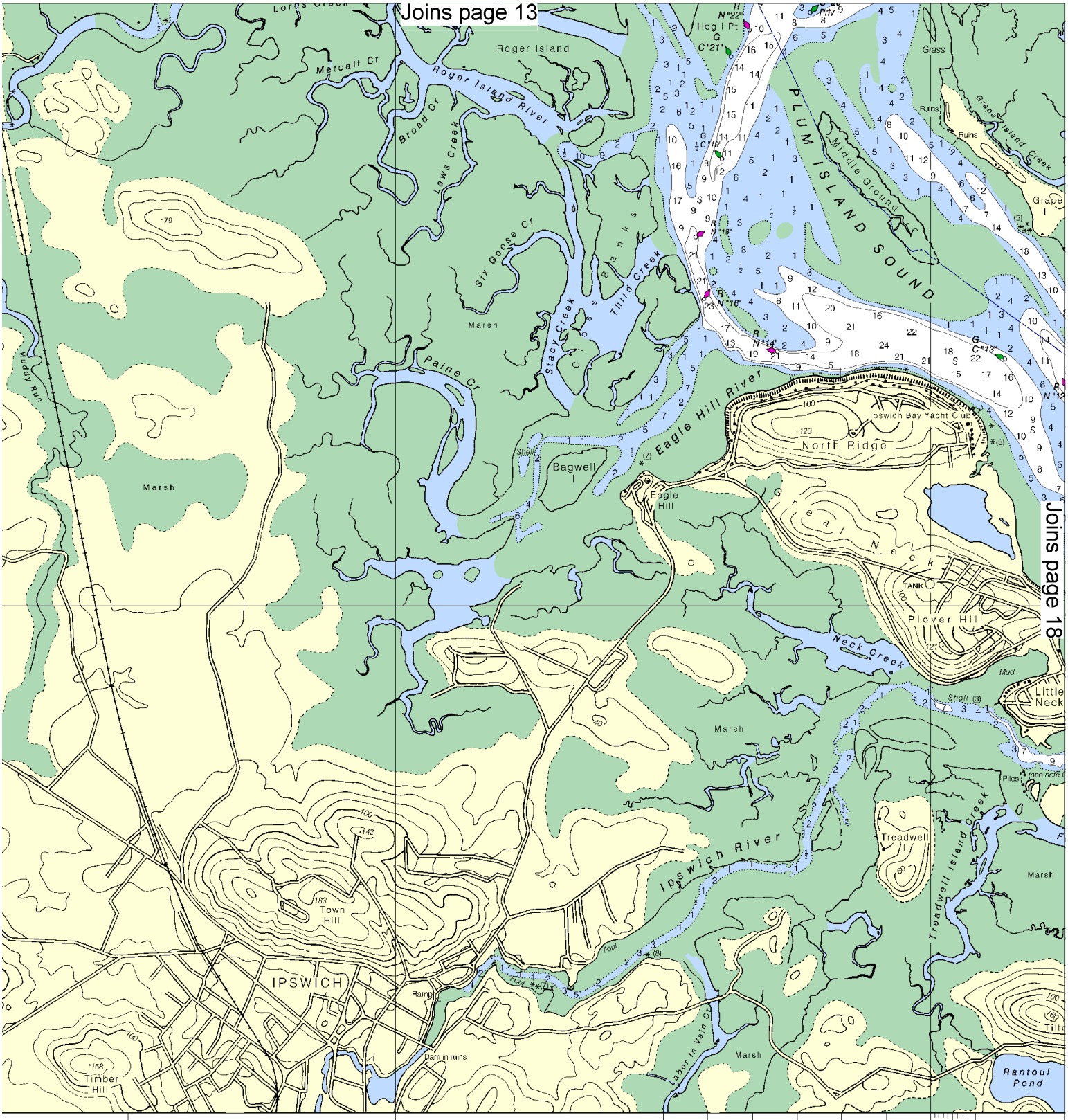
SOUNDINGS IN F

North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

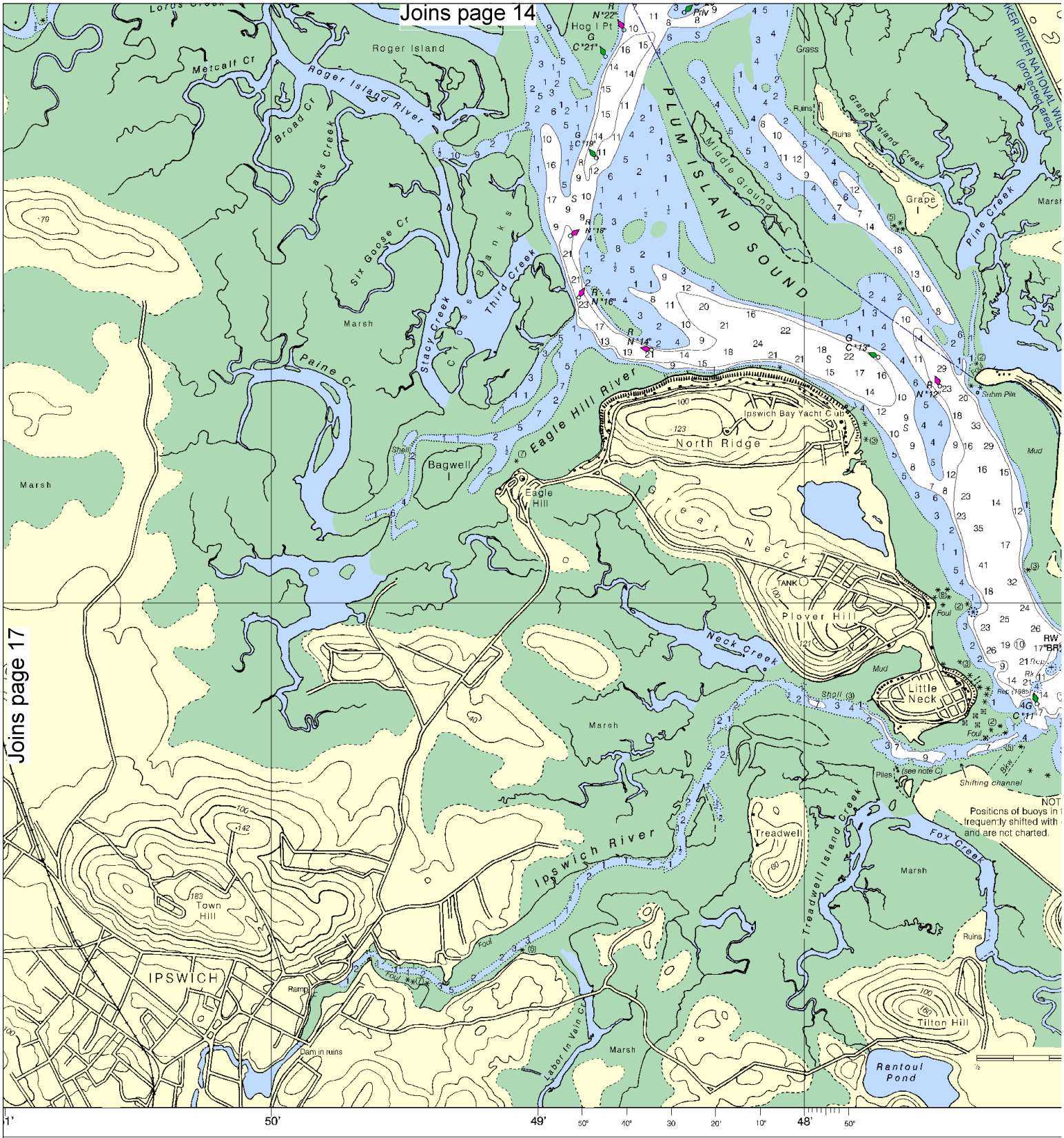
Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500



FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1 2
FEET	6 12
METERS	1 2 3 4



Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7						
FEET	6	12	18	24	30	36	42						
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14

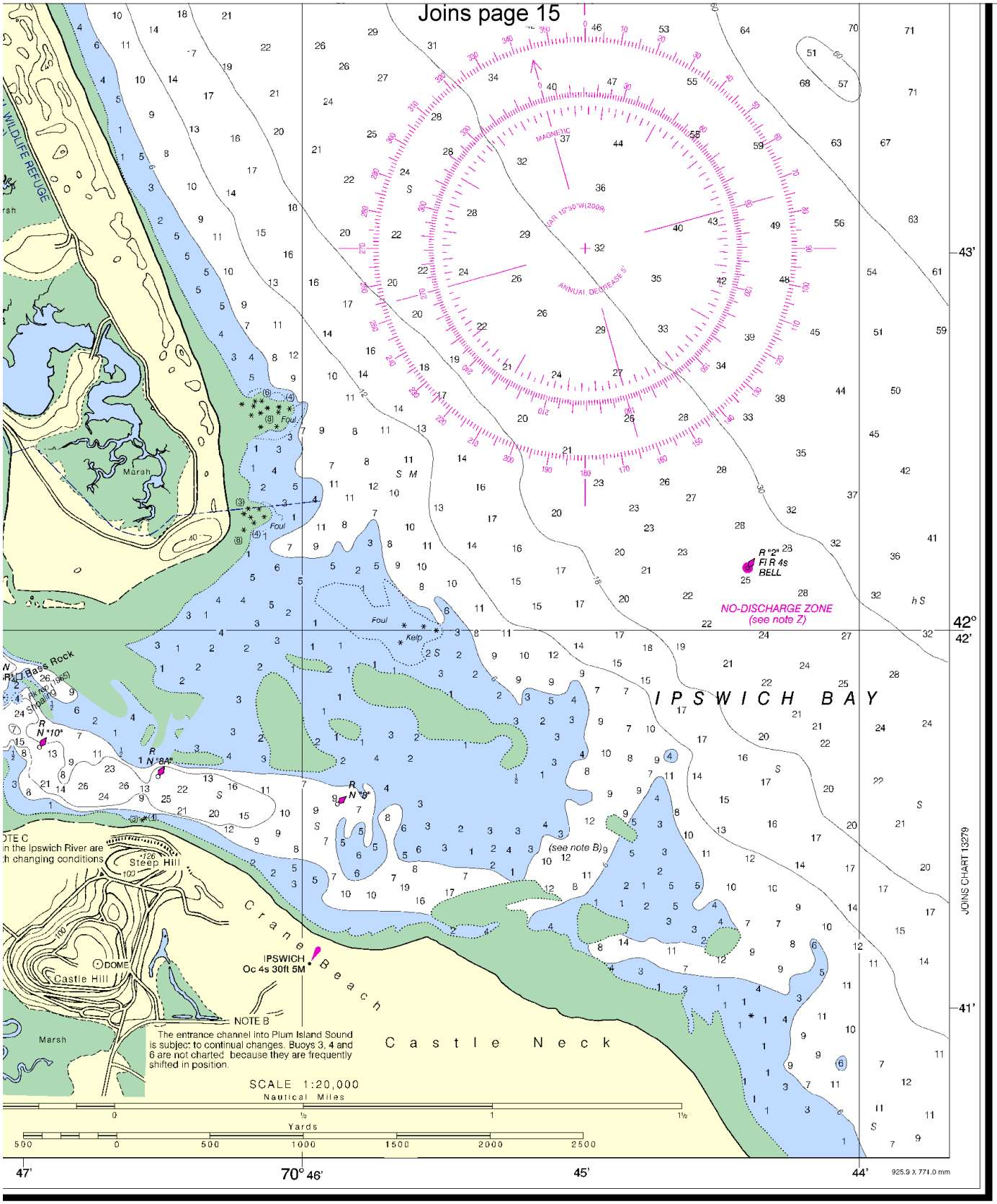
North

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles
0 1 1½

Yards
500 0 500 1000 1500 2000 2500

Joins page 15



ED. NO. 12
NSN 7642014010469
NGA REFERENCE NO. 13XHA13282

Newburyport Harbor and Plum Island Sound

SOUNDINGS IN FEET - SCALE 1:20,000

13282

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Group Boston – 617-223-3201/3208
Coast Guard Cape Gloucester – 978-283-0705
Coast Guard Merrimack River – 978-462-3428
Newbury Port Harbor Master – 978-462-3746
MA Environmental Police – 800-632-8075
Coast Guard Atlantic Area Cmd – 757-398-6390

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

NOAA, The Nation's Chartmaker

NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs™) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts™ – BookletCharts™ are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts™ – PocketCharts™ are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.